



OIPE

ENTERED

RAW SEQUENCE LISTING
 PATENT APPLICATION US/10/077,176

DATE: 03/04/2002
 TIME: 14:46:32

Input Set : A:\433480_1.txt
 Output Set: N:\CRF3\03042002\J077176.raw

4 <110> APPLICANT: Brachmann, Rainer
 6 <120> TITLE OF INVENTION: ENGINEERED OPEN READING FRAME FOR P53
 9 <130> FILE REFERENCE: 004255.00008
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/077,176
 C--> 11 <141> CURRENT FILING DATE: 2002-02-19
 11 <160> NUMBER OF SEQ ID NOS: 21
 13 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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 16 <211> LENGTH: 1182
 17 <212> TYPE: DNA
 18 <213> ORGANISM: Artificial Sequence
 20 <220> FEATURE:
 21 <223> OTHER INFORMATION: Produced by genetic engineering
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 26 gatgatttga tctgtctccc agacgatatt gaacaatggt tcaactgaaga tccaggccca 180
 27 gatgaagctc cagcaatgcc agaggccgct ccaccggttg cccagcacc agcagctctt 240
 28 acacgggggg cccagctccc ggccccatcc tggcctctgt catcttctgt ccttcccag 300
 29 aaacctacc agggcagcta cggtttccgt ctgggcttct tgcattctgg aactgccaa 360
 30 tctgttaact gtacgtactc tccagccctt aacaagatgt cctccacctg gtacacgtgt ccgcgcaatg 420
 31 tgcacagtc aactgtgggt cgactccacc cctccacctg gtacacgtgt ccgcgcaatg 480
 32 gccatctaca agcagagcca gcacatgacg gaggtcgtag gacgtgttcc acaccatgag 540
 33 cgtgtctcag attctgatgg tctggcgcca ccacagcacc ttatccgagt ggaaggtaac 600
 34 ctacggctgg agtatctaga tgaccgcaac acttttcgac acagtgtggt ggtgccatat 660
 35 gaggcaccag aagtttgctc tgaactgacc accatccact acaactatat gtgtaacagt 720
 36 tcaatgcatt gccgcctgaa ccggcgcccg atcctgacca tcatcactct cgaggattcc 780
 37 tcaagtaate tcttaggacg gaattccctt gaggtgctg tttgtgcatg cccggggccc 840
 38 gacgcgccga ccgaagagga gaattcccg aagaaagtgt agcctcacca cgagctgcca 900
 39 ccaaggaaga ctaagcgagc actgcccacc aacaccagca gttctccaca gccaaagaag 960
 40 aaaccttttg acggagaata ttccacctt cagatccgtg ccggtgagcg gttcgagatg 1020
 41 ttcgagagag tgaatgaggc cttagaactt aaggatgcc aggttggtta ggagccagga 1080
 42 ggcagccgtg ctcatagcag ccacctgaag tccaaaaagg gtcagctctc ctcccgccat 1140
 43 aaataactga tgttcaagac cgaaggtcct gactcagact ga 1182
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 46 <211> LENGTH: 1182
 47 <212> TYPE: DNA
 48 <213> ORGANISM: Artificial Sequence
 50 <220> FEATURE:
 51 <223> OTHER INFORMATION: Produced by genetic engineering
 53 <400> SEQUENCE: 2
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 55 gatctgttga agcttcttcc tgaatacaac gttctgtccc cattgcctag tcaagcaatg 120

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56 atgattttaa tctgagccc agacgatatt aaacaatggt tcaactgagg tccaggccc: 180
57 atgaaagctc aaggaatgcc agaggccgct ccaccgatta ccccaaccac agcagctccc: 240
58 aacccggcug ccccagctcc ggcgccatcc tggcctctat catcttctat ccttccca: 300
59 aaaacttacc aggcagcta cggtttccgt ctggccttct tgcattcttg aactgccaa: 360
60 tctattactt gtaagtaact tccagccctt aacaagatgt ttgccaaact cgcgaagac: 420
61 tgcacagtc aactgtgggt cgaactccac cctccacctg gtacacgtgt ccgcgcaat: 480
62 gcatcttaca agcagagcca gcacatgacg gaggtcgtac gacgtctgac acacatgag: 540
63 cgtctctcag attctgatgg tctggcgcga ccacagcact ttatccaggt ggaaggtaac: 600
64 ctacgcctgg agtatctaga tgaccgcaac acttttcgac acagtgtggt ggtgccatat: 660
65 gaggccaccg aagttggctc tgactgcacc accatccact acaactatat gtgtaacagt: 720
66 tcatgcatgg cgggcctgaa ccggcgcccg atcctgacca tcatcactct cgaaggattc: 780
67 tcaagtaata tctaggacg gaattccctt gaggtgcgtg ttgtgtcatt ccggggccgc: 840
68 gatcgccgga ccgaagagga gaattccctg aagaaaggtg agcctcacca cgaagtcgca: 900
69 ccagggaagca ctaagcgagc actgccaaac aacaccagca gttctccaca gccaaagag: 960
70 aaacttttgg acggagaata ttccacccct cagatccgtg gccgtgagcg gttcgagatg: 1020
71 ttccgagagc tgaatgagc cttagaactt aaggatgcc aggttggtta ggagccagga: 1080
72 ggcagccgtg ctcatagcag ccactggaag tccaaaaagg gtcagtctac ctcccgccat: 1140
73 aaaaaactga gttcaagac cgaaggctct gactcagact ga: 1182
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76 <211> LENGTH: 1181
77 <212> TYPE: DNA
78 <213> ORGANISM: Artificial Sequence
80 <220> FEATURE:
81 <223> OTHER INFORMATION: Produced by genetic engineering
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86 atgattttaa tctgagccc agacgatatt gaacaatggt tcaactgagg tccaggccc: 180
87 atgaaagctc aaggaatgcc agaggccgct ccaccggttg ccccaaccac agcagctccc: 240
88 aacccggcug ccccagctcc ggcgccatcc tggcctctgt catcttctgt ccttccca: 300
89 aaaacttacc aggcagcta cggtttccgt ctggccttct tgcattcttg aactgccaa: 360
90 tctattactt gtaagtaact tccagccctt aacaagatgt ttgccaaact cgcgaagac: 420
91 tgcacagtc aactgtgggt cgaactccac cctccacctg gtacacgtgt ccgcgcaat: 480
92 gcatcttaca agcagagcca gcacatgacg gaggtcgtac gacgtctgac acacatgag: 540
93 cgtctctcag attctgatgg tctggcgcga ccacagcact ttatccaggt ggaaggtaac: 600
94 ctacgcctgg agtatctaga tgaccgcaac acttttcgac acagtgtggt ggtgccatat: 660
95 gaggccaccg aagttggctc tgactgcacc accatccact acaactatat gtgtaacagt: 720
96 tcatgcatgg cgggcctgaa ccggcgcccg atcctgacca tcatcactct cgaaggattc: 780
97 tcaagtaata tctaggacg gaattccctt gaggtgcgtg ttgtgtcatt ccggggccgc: 840
98 gatcgccgga ccgaagagga gaattccctg aagaaaggtg agcctcacca cgaagtcgca: 900
99 ccagggaagca ctaagcgagc actgccaaac aacaccagca gttctccaca gccaaagag: 960
100 aaacttttgg acggagaata ttccacccct cagatccgtg gccgtgagcg gttcgagatg: 1020
101 ttccgagagc tgaatgagc cttagaactt aaggatgcc aggttggtta ggagccagga: 1080
102 ggcagccgtg ctcatagcag ccactggaag tccaaaaagg gtcagtctac tagtcgcat: 1140
103 aaaaaactga gttcaagac cgaaggctct actcagact ga: 1181
105 <210> SEQ ID NO: 4
106 <211> LENGTH: 1182
107 <212> TYPE: DNA
108 <213> ORGANISM: Artificial Sequence

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110 <210> FEATURE:

111 <211> OTHER INFORMATION: Produced by genetic engineering

113 <400> SEQUENCE: 4

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116 gatgatttga	tgtgtccccc	agaagatatt	gaacaatggt	tcactgaaga	tccaggtcca	180
117 gatgaagctc	caagatgcc	agagggcgct	ccacgggttg	ccccagccc	agcagctctt	240
118 acacgggggg	ccccagctcc	ggcccctccc	tggcctctgt	catcttctat	cccttccag	300
119 aaaaactacc	agagcagcta	cgttttccgt	ctgggcttct	tgcattcttg	aactgcccag	360
120 tctattactt	gtactacttc	tccagccctt	aacaagatgt	tttgccaaat	cgcgaagccc	420
121 tcccagctcc	aactgttgtt	cgaactccac	ctccaccttg	gtacacgtgt	ccgggcaatt	480
122 gcatctatca	agcagagcca	gcacatgagc	gaggtcgtac	gtcactgtcc	acacatgag	540
123 cgtgtctcag	attctgatgg	tctagggcca	ccacagcctc	ttatccaggt	ggaaggttcc	600
124 ctacggctgg	agtatctaga	tgaacgcaac	acttttcgac	acagtgtggt	ggtgcatat	660
125 gacccaccag	aagttggctc	tgaactgcac	acctccact	acaaacttat	gtgtaacagt	720
126 tcattcatgg	ggggcatgaa	cggggggcgg	atcctgacca	tcatactct	cgaggattcc	780
127 tcagtaate	tcctaggacg	gaattccctt	gaggtgcttg	tttgtcatg	ccggggcgcc	840
128 gatcgccgga	cgaagaggga	gaatctccgg	aagaaaggtg	agcctcacc	cgagctgcca	900
129 ccaggaagca	ctaagcgagc	actgcacaa	aacaccagca	gtttccaca	gccaaagaag	960
130 aaacctttgg	acggagaata	tttccacctt	cagatccgtg	cccgtgagcg	gttcagatg	1020
131 ttccgagagc	tgaatgagcc	cttagaactt	aaggatgccc	aggtggttaa	ggagccagga	1080
132 ggcagccgtg	ctcatagcag	ccacctgaag	tccaaaaagg	gtcagttcac	ctccgcctat	1140
133 aaaaaactga	tgttcaagac	cgaaggtcct	gactcagact	ga		1182

135 <210> SEQ ID NO: 5

136 <211> LENGTH: 1181

137 <212> TYPE: RNA

138 <213> ORGANISM: Artificial Sequence

140 <220> FEATURE:

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145 acctgttgaa	attgcttctt	aaaaacaacg	ttctgtcccc	attgcttagt	caagcaatgg	120
146 atgatttgat	gtgttcccca	gaagatattg	aacaatgggt	cactgaagat	ccagcccacg	180
147 atgaagcttc	acgaatgcca	gaagcgcctc	caccgggttg	ccccaccca	ccagctctta	240
148 caccgggggg	cccagctccg	ggcccctccc	ggcctctgtc	atcttctctc	ccctcccca	300
149 aaaaactacc	agagcagctc	ggttttccgt	tgggcttctt	gcattcttga	actgccaagt	360
150 ctgttaactt	tacgtactct	ccagccctta	acaagatgtt	ttgccaactc	gcgaagacct	420
151 gcccagtcac	actgtgggtc	gactccaccc	ctccaccttg	tacacgtctc	cgcgcaatgg	480
152 ccatctacaa	gcagagccag	gcacatgagc	aggtcgttag	acgtgttcca	cacctgagc	540
153 gctgtctcga	ttctgatggt	ctggggccac	ccacagcatct	tatccgagt	gaaggttacc	600
154 tacggctgga	gtatctagat	gaagcgaaca	cttttcgaca	cagtgtggtg	gtgcatatg	660
155 agccaccaga	agttgctctt	gactgcacca	ccatccacta	caacttatit	gttaacagtt	720
156 catgcatggg	cggcatgaac	cagggggcga	tcctgacctt	catactcttc	gaggtattct	780
157 cagtaaatct	cttaggacgg	aattcttttg	aggtgcgtgt	ttgtacatgc	ccggggcgcc	840
158 atgtccggga	cgaagagga	aatctccggga	agaaaggtga	gcctcaccac	gagctgccc	900
159 caggaagcac	taagcgagca	ctgccaacaa	acaccagcag	ttctccaca	ccaaagaaga	960
160 aaccttttga	cggagaatat	tttccacctt	agatccgttg	ccgtgagcgg	ttcagatgt	1020
161 tccgagaact	aatgagggc	ttagaactta	aggatgccc	ggtggttaag	gaaccagga	1080
162 gcagccatgc	tcatagcac	ccactgaagt	ccaaaaagg	tcactctacc	tccgcacata	1140

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163 aaaaactgat gtccaagacc aaaggtctct actcagaact; a
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167 <212> TYPE: DNA
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169 <220> FEATURE:
170 <223> OTHER INFORMATION: Produced by genetic engineering
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176 gatgatttga tctgttcccc agacgatatt gaacaatggt tcaetgaaga tccaggcccc 180
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178 aacacggcgg ccccaagctcc ggcctccatcc tggcctctgt catcttctgt cctttcccag 300
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181 tgcacagtc aactgtgggt cgaactccac cctccacctg gtacagtggt ccgcgcaatg 480
182 gccatctaca agcagagcca gcacatgacg gaggtcgtac gacgtgttcc acaccatgag 540
183 cgtctctcag attctgatgg tctggcgcca ccacagcatc ttatccgagt ggaaggtaac 600
184 ctacgcttgg agtatctaga tgaccgcaac acttttcgac acagtgttgt ggtgccatat 660
185 gagcaccag aagttggctc tgactgcacc accatccact acaactatat gtgtaacagt 720
186 tcatgcatgg gggcctgaa cggcgccg atcctgacca tcatcactct cagggattcc 780
187 tcagtaata tctaggacg gaattccttt gaggtgcacg tttgtgcatt cccgggccgc 840
188 gatcccccga ccgaagagga gaattctcgg aagaaagggt agctccacca cgaagtgcga 900
189 ccaggaagca ctaagcgagc actgcacaac aacaccagca gttctccaca gccaaagaag 960
190 aaccttttgg acggagaata ttaccacctt cagatccgtg gccgtgagcg gttcagatg 1020
191 ttccagagac tgaatgaggc cttagaactt aaggatgcc aggttggtta ggaagcagga 1080
192 ggcacccgtg ctcatagcag ccacctgaag tccaaaaagg gtcagtctac ctcccgcct 1140
193 aaaaactga tgtccaagac cgaaggtcct gactcagact ga
195 <210> SEQ ID NO: 7
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199 <220> FEATURE:
200 <223> OTHER INFORMATION: Produced by genetic engineering
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206 gatgatttga tctgttcccc agacgatatt gaacaatggt tcaetgaaga tccaggcccc 180
207 gatgaagctc cacgaatgac agaggccgct ccaccggttg ccccaagacc agcagctcct 240
208 aacacggcgg ccccaagctcc ggcctccatcc tggcctctgt catcttctgt cctttcccag 300
209 aaaaactacc agggcagcta cggtttccgt ctgggcttct tgcattctgg aactgccaag 360
210 tctgttaact gtacgtactc tccagccctt aacaagatgt tttgccaact cgggaagacc 420
211 tgcacagtc aactgtgggt cgaactccac cctccacctg gtacagtggt ccgcgcaatg 480
212 gccatctaca agcagagcca gcacatgacg gaggtcgtac gacgtgttcc acaccatgag 540
213 cgtctctcag attctgatgg tctggcgcca ccacagcatc ttatccgagt ggaaggtaac 600
214 ctacgcttgg agtatctaga tgaccgcaac acttttcgac acagtgttgt ggtgccatat 660
215 gagcaccag aagttggctc tgactgcacc accatccact acaactatat gtgtaacagt 720
216 tcatgcatgg gggcctgaa cggcgccg atcctgacca tcatcactct cagggattcc 780
217 tcagtaata tctaggacg gaattccttt gaggtgcacg tttgtgcatt cccgggccgc 840

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215 gatcgccgga ccgaagagga gaattccctt aaaaaaattt aactccaca cgaattgcca 960
216 ccaaaagaca ctaagcgagg actgccaaac aacaccagca gttctccaca gccaaagaaa 960
217 aacccctttg acggagaata ttccaccctt cagatccctt gccatgaagg attcgagatg 1020
218 ttccagagagc tgaatgaggc cttagaactt aagatgccc aggtggttaa ggaagcaagg 1080
219 ggcagccggtg ctcatagcag ccacctgaag tccaaaaagg gtcattctac ctcccgccat 1140
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222 <211> LENGTH: 1182
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230 gatgatttga tctgttcccc agacgatatt gaacaaatgt tcaatgaaga tccagggcca 180
231 gatgagctc cagcaatgcc agaggccctt ccaccggttg cccagacacc agcagctcct 240
232 acaccggggg cccagctccc ggcaccatcc tggcctctgt catcttctgt cctttcccag 300
233 aaaaactacc agggcageta cgttttccgt ctgggcttct tgcattcttg aactgccaag 360
234 tctgttactt gtacgtactc tccagccctt aacaagatgt tttgccaact cgggaagacc 420
235 tcccagctcc aactgtgggt cgaactccac cctccacctg gtacacgtgt cggcgcaatg 480
236 gacatctaca agcagagcca gcacatgacg gaggctcgtac gacgtgttcc acaccatgag 540
237 cgtgtctcag attctgatgg tctggcgcca ccacaccatc ttatccgagt ggaaggtaac 600
238 ctacggttgg actatctaga tgaccgcaac acttttccag acagtatgtt ggtgccatct 660
239 gatgagctc aagttggctc tgaactgccc accatccact acaactatat gtgtaacagt 720
240 tctgtgctgg gggcgatgaa cggcgggggg atcttaccac tcatcactct cgaaggattcc 780
241 tctgtgctgg gggcgatgaa cggcgggggg atcttaccac tcatcactct cgaaggattcc 840
242 gatgagctc aagttggctc tgaactgccc accatccact acaactatat gtgtaacagt 900
243 ccaaggaagc ctaagcgagg actgccaaac aacaccagca gttctccaca gccaaagaa 960
244 aacccctttg acggagaata ttccaccctt cagatccctt gccgtgagcg attcgagatg 1020
245 ttccagagagc tgaatgaggc cttagaactt aagatgccc aggtggttaa ggaagcaagg 1080
246 ggcagccggtg ctcatagcag ccacctgaag tccaaaaagg gtcattctac ctcccgccat 1140
247 aaaaaaacta tttcaagac cgaaggctct gactcagact ga 1182
248 <210> SEQ ID NO: 9
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256 gacatgttga aattgcttcc tgaaaacaa gttctgtccc catttccctag tcaagcaatg 120
257 gatgatttga tctgttcccc agacgatatt gaacaaatgt tcaatgaaga tccagggcca 180
258 gatgagctc cagcaatgcc agaggccctt ccaccggttg cccagacacc agcagctcct 240
259 acaccggggg cccagctccc ggcaccatcc tggcctctgt catcttctgt cctttcccag 300
260 aaaaactacc agggcageta cgttttccgt ctgggcttct tgcattcttg aactgccaag 360
261 tctgttactt gtacgtactc tccagccctt aacaagatgt tttgccaact cgggaagacc 420
262 tcccagctcc aactgtgggt cgaactccac cctccacctg gtacacgtgt cggcgcaatg 480
263 gacatctaca agcagagcca gcacatgacg gaggctcgtac gacgtgttcc acaccatgag 540

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Use of the 'X' or 'Xaa' has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using 'X' or 'Xaa'

VERIFICATION SUMMARY

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DATE: 13/04/2004

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Input Set : A:\433480_1.txt

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L:11 M:270 C: Current Application Number differs. Replaced Current Application No
L:11 M:271 C: Current Filing Date differs. Replaced Current Filing Date
L:2328 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71